

Skowhegan Electric Motors, Inc.)	Departmental
Somerset County)	Findings of Fact and Order
Skowhegan, Maine)	Air Emission License
A-101-71-E-R)	

After review of the air emissions license renewal application, staff investigation reports and other documents in the applicant's file in the Bureau of Air Quality, pursuant to 38 M.R.S.A., Section 344 and Section 590, the Department finds the following facts:

I. REGISTRATION

A. Introduction

Skowhegan Electric Motors (SEM) of Skowhegan, Maine has applied to renew their Air Emission License permitting the operation of their LP fired Class VII incinerator which is used as a "bake-off" incinerator to reclaim copper wiring from electric motors.

B. Emission Equipment

SEM is authorized to operate the following equipment:

Model	Pollution Control Products
Class Incinerator	V
No. of Chambers	2
Type of Waste	Type 6
Max. Design Feed Rate	100 lb/hr
Auxiliary Fuel Input:	
Primary Chamber (Btu/hr)	150,000 LP fuel
Secondary Chamber (Btu/hr)	150,000 LP fuel
Emission Control Device	Afterburner

C. Additional Equipment and Processes

1. SEM operates a 93,000 Btu/hr furnace for heating purposes only which is less than 1.0 MMBtu/hr, and is listed for inventory purposes only.
2. The following processes are performed at the facility:

Process Equipment

<u>Equipment</u>	<u>Pollutant</u>	<u>Pollution Control Equipment</u>
Varnish Dipper	VOC	none
Electric Bake Oven	VOC	none
Safety-Kleen Parts Cleaner	VOC	none
Paint Booth	PM, VOC	none

D. Application Classification

The application for SEM does not include the licensing of increased emissions or the installation of new or modified equipment. Therefore, the license is considered to be a renewal of current licensed emission units only.

II. BEST PRACTICAL TREATMENT (BPT)

A. Introduction

In order to receive a license the applicant must control emissions from each unit to a level considered by the Department to represent Best Practical Treatment (BPT), as defined in Chapter 100 of the Air Regulations. Separate control requirement categories exist for new and existing equipment as well as for those sources located in designated non-attainment areas.

BPT for existing emissions equipment means that method which controls or reduces emissions to the lowest possible level considering:

- the existing state of technology;
- the effectiveness of available alternatives for reducing emission from the source being considered; and
- the economic feasibility for the type of establishment involved.

B. Incinerator Emissions

To meet the requirements of BPT for the control of PM emissions from the incinerator, SEM shall operate the incinerator as follows:

1. The afterburner shall be operated at all times during incinerator operation.
2. The incinerator shall operate for no more than 3 hours daily; a log of operating hours shall be kept.
3. MEDEP Chapter 104 contains an applicable PM limit, however the BPT limit of 0.1 gr/dscf is more stringent and shall be used.
4. Visible emissions from the incinerator shall not exceed 10% opacity on a six minute block average.
5. The incinerator shall use LP fuel as an auxiliary fuel.

C. Process Emissions

1. Varnish Dipping and Electric Bake Oven

SEM uses up to 120 gallons of Baking Varnish per year for this operation. Up to 10 gallons per year of thinner are used in the operation as well. VOC emissions from this operation shall be limited to a combined total of 0.5 ton/year.

2. Painting

The majority of painting uses up to 15 cases of aerosol spray cans per year (24 15 oz. cans per case). An exhaust fan is used to pull pollutants from painting from the work space to the attic above. Due to the small amount of paint used at the facility, PM and VOC emissions from painting are considered to be negligible.

3. The parts cleaner uses Safety-Kleen Solvent and is maintained by Safety-Kleen. Records shall be kept of the solvent added and removed. The parts cleaner is subject to MEDEP Chapter 130.

D. Annual Emission Restrictions

SEM shall be restricted to the following annual emissions, based on a maximum allowable rate of 100 lbs/hr of type 6 waste, with emissions based on a 12 month rolling total:

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Total Allowable Annual Emission for the Facility
(used to calculate the annual license fee)

<u>Pollutant</u>	<u>Tons/Year</u>
PM	0.3
PM ₁₀	0.3
SO ₂	neg.
NO _x	neg.
CO	neg.
VOC	0.5

III.AMBIENT AIR QUALITY ANALYSIS

According to the Maine Regulations Chapter 115, the level of air quality analyses required for a renewal source shall be determined on a case-by case basis. Based on the on the information in the file, and the similarity to existing sources, SEM is below the emissions level required for modeling and monitoring.

ORDER

Based on the above Findings and subject to conditions listed below, the Department concludes that the emissions from this source:

- will receive Best Practical Treatment,
- will not violate applicable emission standards,
- will not violate applicable ambient air quality standards in conjunction with emissions from other sources.

The Department hereby grants Air Emission License A-101-71-E-R subject to the following conditions:

- (1) Employees and authorized representatives of the Department shall be allowed access to the licensee's premises during business hours, or any time during which any emissions units are in operation, and at such other times as the Department deems necessary for the purpose of performing tests, collecting samples, conducting inspections, or examining and copying records relating to emissions (38 MRSA §347-C).
- (2) The licensee shall acquire a new or amended air emission license prior to commencing construction of a modification, unless specifically provided for in Chapter 115. [MEDEP Chapter 115]

- (3) Approval to construct shall become invalid if the source has not commenced construction within eighteen (18) months after receipt of such approval or if construction is discontinued for a period of eighteen (18) months or more. The Department may extend this time period upon a satisfactory showing that an extension is justified, but may condition such extension upon a review of either the control technology analysis or the ambient air quality standards analysis, or both. [MEDEP Chapter 115]
- (4) The licensee shall establish and maintain a continuing program of best management practices for suppression of fugitive particulate matter during any period of construction, reconstruction, or operation which may result in fugitive dust, and shall submit a description of the program to the Department upon request. [MEDEP Chapter 115]
- (5) The licensee shall pay the annual air emission license fee to the Department, calculated pursuant to Title 38 M.R.S.A. §353. [MEDEP Chapter 115]
- (6) The license does not convey any property rights of any sort, or any exclusive privilege. [MEDEP Chapter 115]
- (7) The licensee shall maintain and operate all emission units and air pollution systems required by the air emission license in a manner consistent with good air pollution control practice for minimizing emissions. [MEDEP Chapter 115]
- (8) The licensee shall maintain sufficient records to accurately document compliance with emission standards and license conditions and shall maintain such records for a minimum of six (6) years. The records shall be submitted to the Department upon written request. [MEDEP Chapter 115]
- (9) The licensee shall comply with all terms and conditions of the air emission license. The filing of an appeal by the licensee, the notification of planned changes or anticipated noncompliance by the licensee, or the filing of an application by the licensee for a renewal of a license or amendment shall not stay any condition of the license. [MEDEP Chapter 115]
- (10) The licensee may not use as a defense in an enforcement action that the disruption, cessation, or reduction of licensed operations would have been necessary in order to maintain compliance with the conditions of the air emission license. [MEDEP Chapter 115]
- (11) In accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department, the licensee shall:

- A. perform stack testing to demonstrate compliance with the applicable emission standards under circumstances representative of the facility's normal process and operating conditions:
 - 1. within sixty (60) calendar days of receipt of a notification to test from the Department or EPA, if visible emissions, equipment operating parameters, staff inspection, air monitoring or other cause indicate to the Department that equipment may be operating out of compliance with emission standards or license conditions; or
 - 2. pursuant to any other requirement of this license to perform stack testing.
 - B. install or make provisions to install test ports that meet the criteria of 40 CFR Part 60, Appendix A, and test platforms, if necessary, and other accommodations necessary to allow emission testing; and
 - C. submit a written report to the Department within thirty (30) days from date of test completion.
[MEDEP Chapter 115]
- (12) If the results of a stack test performed under circumstances representative of the facility's normal process and operating conditions indicate emissions in excess of the applicable standards, then:
- A. within thirty (30) days following receipt of such test results, the licensee shall re-test the non-complying emission source under circumstances representative of the facility's normal process and operating conditions and in accordance with the Department's air emission compliance test protocol and 40 CFR Part 60 or other method approved or required by the Department; and
 - B. the days of violation shall be presumed to include the date of stack test and each and every day of operation thereafter until compliance is demonstrated under normal and representative process and operating conditions, except to the extent that the facility can prove to the satisfaction of the Department that there were intervening days during which no violation occurred or that the violation was not continuing in nature; and
 - C. the licensee may, upon the approval of the Department following the successful demonstration of compliance at alternative load conditions, operate under such alternative load conditions on an interim basis prior to a demonstration of compliance under normal and representative process and operating conditions.
[MEDEP Chapter 115]
- (13) Notwithstanding any other provisions in the State Implementation Plan approved by the EPA or Section 114(a) of the CAA, any credible evidence may be used for the purpose of establishing whether a person has violated or is in violation of any statute, regulation, or Part 70 license requirement. [MEDEP Chapter 115]
- (14) The licensee shall maintain records of malfunctions, failures, downtime, and any other similar change in operation of air pollution control systems or the emissions

unit itself that would affect emission and that is not consistent with the terms and conditions of the air emission license. The licensee shall notify the Department within two (2) days or the next state working day, whichever is later, of such occasions where such changes result in an increase of emissions. The licensee shall report all excess emissions in the units of the applicable emission limitation. [MEDEP Chapter 115]

- (15) Upon written request from the Department, the licensee shall establish and maintain such records, make such reports, install, use and maintain such monitoring equipment, sample such emissions (in accordance with such methods, at such locations, at such intervals, and in such a manner as the Department shall prescribe), and provide other information as the Department may reasonably require to determine the licensee's compliance status. [MEDEP Chapter 115]

SPECIFIC CONDITIONS

- (16) Incinerator [MEDEP Chapter 115, Chapter 101, BPT]

- A. The afterburner shall be operated at all times during incinerator operation.
- B. The incinerator shall operate for no more than 3 hours daily; a log of operating hours shall be kept.
- C. Particulate emissions from the incinerator shall not exceed 0.1 gr/dscf.
- D. Visible emissions from the incinerator shall not exceed 10% opacity on a six-minute block average basis.
- E. Maximum feed rate to the incinerator shall not exceed 100 lb/hr of Type 6 waste only.
- F. Incinerator ash shall be disposed of according to the Bureau of Remediation and Waste Management.
- G. The incinerator shall be limited to the following emissions:

<u>Pollutant</u>	<u>gr/dscf</u>	<u>lb/hr</u>
PM	0.1	0.07
PM ₁₀	-	0.07
SO ₂	-	0.01
NO _x	-	0.07
CO	-	0.02
VOC	-	0.01

- (17) SEM shall not exceed 0.5 ton/yr of VOC emissions from the use of varnish and thinner. Records shall be kept of the varnish and thinner used for compliance purposes. [MEDEP Chapter 115, BPT]

(18) Parts Washer

Parts washers at SEM are subject to MEDEP Chapter 130.

A. SEM shall keep records of the amount of solvent added to each parts washer.
[MEDEP Chapter 115, BPT]

B. The following are exempt from the requirements of Chapter 130 [MEDEP Chapter 130]:

1. Solvent cleaners using less than two liters (68 oz) of cleaning solvent with a vapor pressure of 1.00 mmHg, or less, at 20° C (68° F);
2. Wipe cleaning; and,
3. Cold cleaning machines using solvents containing less than or equal to 5% VOC by weight.

C. The following standards apply to remote reservoir cold cleaning machines that are applicable sources under Chapter 130.

1. SEM shall attach a permanent conspicuous label to each unit summarizing the following operational standards [MEDEP Chapter 130]:
 - (i) Waste solvent shall be collected and stored in closed containers.
 - (ii) Cleaned parts shall be drained of solvent directly back to the cold cleaning machine by tipping or rotating the part for at least 15 seconds or until dripping ceases, whichever is longer.
 - (iii) Flushing of parts shall be performed with a solid solvent spray that is a solid fluid stream (not a fine, atomized or shower type spray) at a pressure that does not exceed 10 psig. Flushing shall be performed only within the freeboard area of the cold cleaning machine.
 - (iv) The cold cleaning machine shall not be exposed to drafts greater than 40 meters per minute when the cover is open.
 - (v) Sponges, fabric, wood, leather, paper products and other absorbent materials shall not be cleaned in the degreaser.
 - (vi) When a pump-agitated solvent bath is used, the agitator shall be operated to produce no observable splashing of the solvent against the tank walls or the parts being cleaned. Air agitated solvent baths may not be used.
 - (vii) Spills during solvent transfer shall be cleaned immediately. Sorbent material shall be immediately stored in covered containers.
 - (viii) Work area fans shall not blow across the opening of the degreaser unit.
 - (ix) The solvent level shall not exceed the fill line.
2. The remote reservoir cold cleaning machine shall be equipped with a perforated drain with a diameter of not more than six inches. [MEDEP Chapter 130, BPT]

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- (19) SEM shall keep a copy of this Order on site, and have the operator(s) be familiar with the terms of this Order. [MEDEP Chapter 115]
- (20) SEM shall notify the Department within 48 hours and submit a report to the Department on a quarterly basis if a malfunction or breakdown in any component causes a violation of any emission standard (Title 38 MRSA §605).
- (21) **Payment of Annual License Fee**
SEM shall pay the annual air emission license fee within 30 days of **March 31st** of each year. Pursuant to 38 MRSA §353-A, failure to pay this annual fee in the stated timeframe is sufficient grounds for revocation of the license under 38 MRSA §341-D, subsection 3. [38 MRSA §353-A]

DONE AND DATED IN AUGUSTA, MAINE THIS DAY OF 2004.

DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY: _____
DAWN R. GALLAGHER, COMMISSIONER

The term of this license shall be five (5) years from the signature date above.

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

Date of initial receipt of application: 8/20/2004

Date of application acceptance: 8/31/2004

Date filed with the Board of Environmental Protection: _____

This Order prepared by Jonathan Voisine, Bureau of Air Quality.